

FLOATING POINT MULTIPLIER WITH EMBEDDED STATUS INFORMATION

Abstract of the Disclosure

A system for providing a floating point product comprises an analyzer circuit configured to determine a first status of a first floating point operand and a second status of a second floating point operand based upon data within the first floating point operand and data within the second floating point operand respectively. In addition, the system comprises a results circuit coupled to the analyzer circuit. The results circuit is configured to assert a resulting floating point operand containing the product of the first floating point operand and the second floating point operand. Additionally, the results circuit provides a resulting status embedded within the resulting floating point operand.